

Title (en)  
Object detection system and method

Title (de)  
Objekterkennungssystem und Verfahren

Title (fr)  
Système et procédé de détection d'objet

Publication  
**EP 2905724 A3 20150916 (EN)**

Application  
**EP 15154024 A 20150205**

Priority

- IN 456MU2014 A 20140207
- IN 949MU2014 A 20140322

Abstract (en)  
[origin: EP2905724A2] Disclosed is a system and method for detecting a human in an image, and a corresponding activity. The image is captured, wherein the image comprises a plurality of pixels having gray scale information and a depth information. The image is segmented into a plurality of segments based upon the depth information. A connected component analysis is performed on a segment in order to segregate the one or more objects into noisy objects and candidate objects, the noisy objects are eliminated from the segment. A plurality of features are extracted from the candidate objects, and are evaluated using a Hidden Markov Model (HMM) model in order to determine the candidate objects as one of the human or non-human. The corresponding activity associated with the human is detected based on a depth value associated with each pixel corresponding to the candidate object in the image.

IPC 8 full level  
**G06V 10/30** (2022.01)

CPC (source: EP US)  
**G06V 10/457** (2022.01 - EP US); **G06V 20/52** (2022.01 - US); **G06V 20/64** (2022.01 - EP US); **G06V 40/103** (2022.01 - EP US); **G06V 40/23** (2022.01 - EP US); **G06T 2207/10024** (2013.01 - US); **G06T 2207/10028** (2013.01 - US); **G06T 2207/20021** (2013.01 - US); **G06T 2207/20072** (2013.01 - US); **G06T 2207/30196** (2013.01 - US); **G06T 2207/30232** (2013.01 - US); **G06V 10/30** (2022.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2905724 A2 20150812; EP 2905724 A3 20150916; EP 2905724 B1 20240313; EP 2905724 C0 20240313**; US 2015227784 A1 20150813; US 9430701 B2 20160830

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